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DERWENT-WEEK: 199236

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TITLE: Polymer based composite material films prodn.
equipment
with - roller-drawn metal strip-electrode is coated
molten polymer on which piezoceramic articles
are blown and pressed

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PRIORITY-DATA: 1989SU-4746338 (August 30, 1989)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
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ABSTRACTED-PUB-NO: SU 1694411A

BASIC-ABSTRACT:

Strip drawing mechanism (1) has rollers (2) with 1st strip electrode (3) and (9) with 2nd strip-electrode (10), rollers (4) to apply polymer coating, reception drum (17), heater (14). and current source (16). Chamber (5) to introduce filler has sprayer (7) and electrode (8) at angle to one another, plus rollers (11) to form compsn. film 2nd strip electrode (10) is in chamber (5).

An electric motor moves drawing mechanism (1); on to metal strip forming 1st strip-electrode (2) to which -ve potential is fed, molten polymer from tank (12) is applied by rollers (4). Strip with polymer coating moves

between heated drawing table (13) and chamber (5) to apply filler, using sprayer (7) at angle to electrode (8); filler is finely dispersed piezo-ceramic powder. It is rejected from electrode (8) at potential = +1000 V and particles are oriented as they are embedded in the molten polymer film. Filler particles are finally pressed and simultaneously connected to 2nd strip electrode (10), using rollers (11).

USE/ADVANTAGE - For mfr. of polymer-based compsn. materials. Mfg. technology is improved. Bul.44/30.11.91

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